



Implementation of the Monitoring Design: Detailed Workplans (FY15/16 & 16/17)

August 23rd, 2016



Monitoring Design vs Detailed WP

Monitoring Design

-> Intent



Detailed Workplan

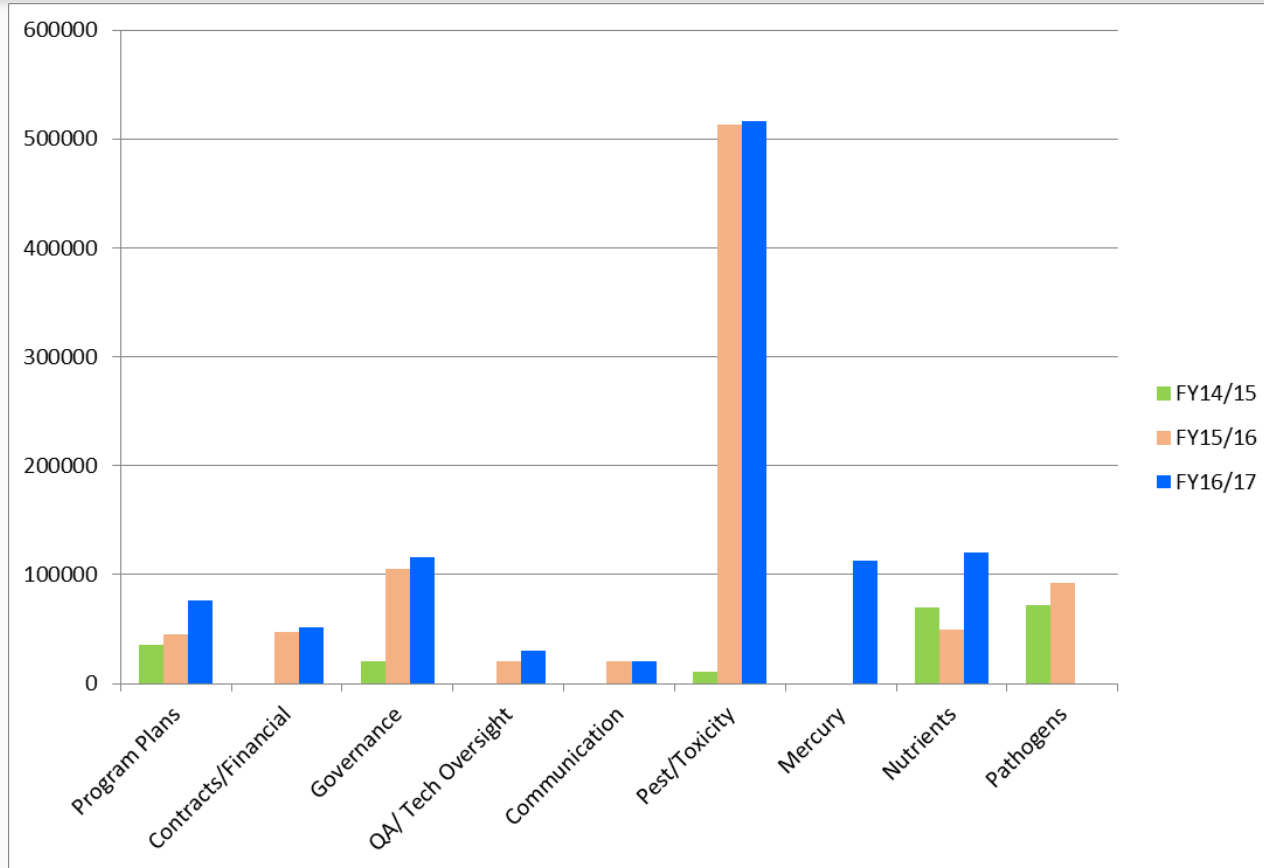
-> Action



Priority Focus Areas

	Workplan Implementation			Monitoring Design		
	Year			Low	Medium	Higher
Pest / Toxicity	FY14/15	FY15/16	FY16/17			
– Water				✓		
Nutrients						
– Synthesis					✓	
– Monitoring Design					✓	
Pathogens						
– Water					✓	
– Additional studies					✓	
Mercury						
– Sport fish				✓		
– Water				✓		

RMP Budgets – FY14/15 thru FY16/17



Current Use Pesticides/ Toxicity

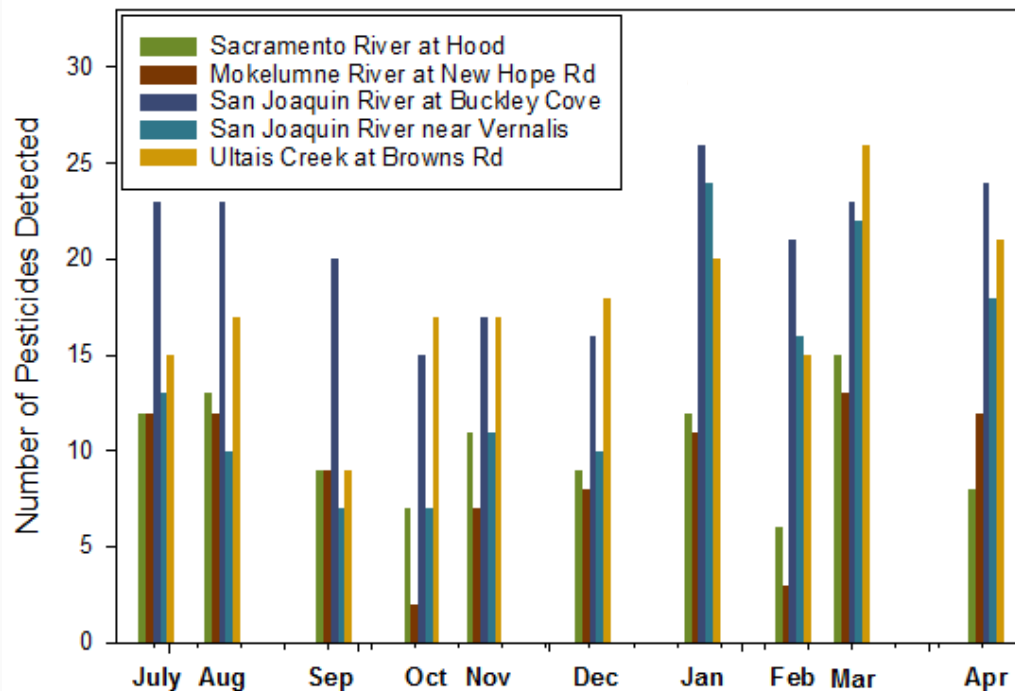
Same design for FY15/16 and FY16/17:

- Monthly water sampling @ 5 sites
- USGS: Pesticides – 158 analytes
 - 30% match
- UCD: Toxicity – 3 species
 - Additional \$\$ FY16/17 for Hyallela?



Deliverables:

- Data into CEDEN
- Annual Monitoring Report



Mercury: Fish and Water

Starting FY16/17

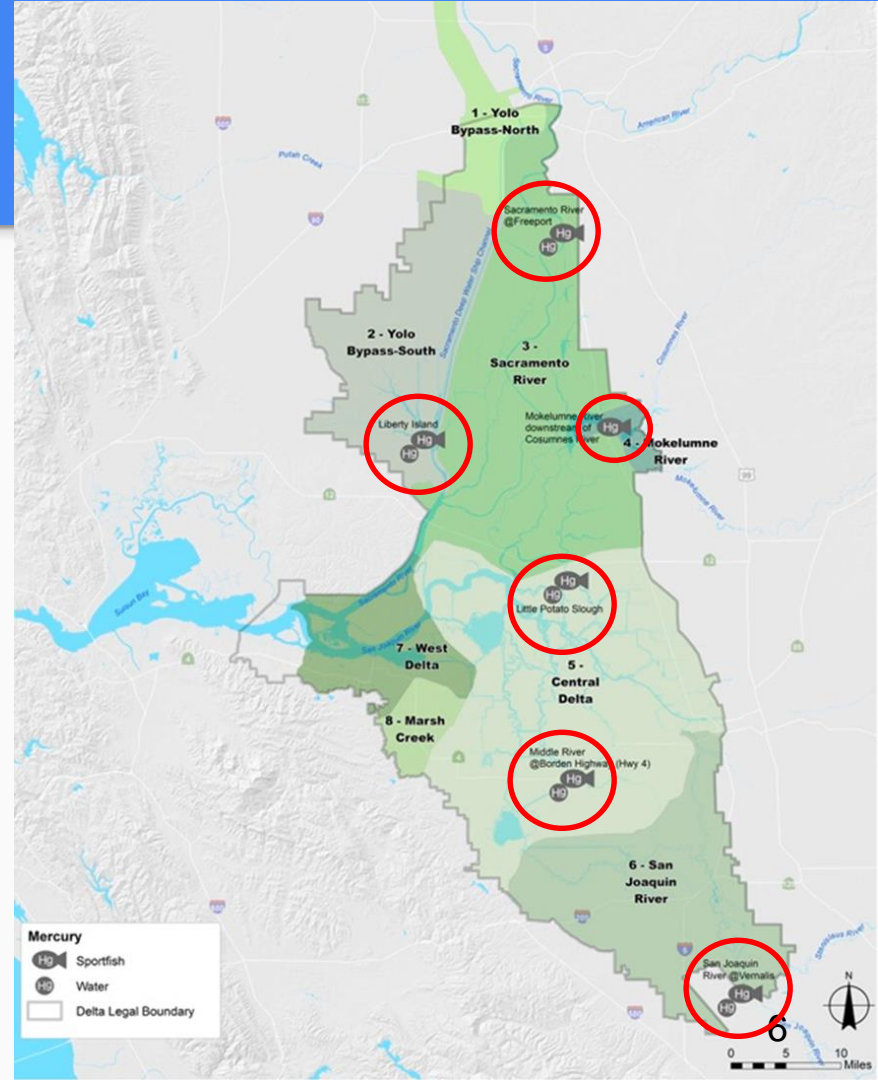
- Fish – Summer sampling, 6 fixed sites (annual)
- Water - 5 fixed sites (quarterly) – Hg/MeHg, SSC, Chl-a, DOC



15% match

Deliverables:

- Summary report
- Data uploaded to CEDEN



Mercury: Prop 1 Proposal to CA DFWS



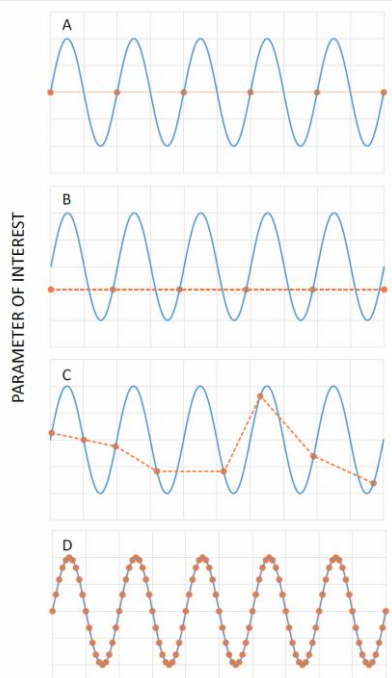
Pending three-year proposal (FY 17/18 – FY19/20):

- Fish – Summer sampling; 6 fixed sites (bass only – annual event)
- Water and sediment - 6 fixed sites (quarterly) – total Hg/ MeHg and ancillary parameters

Deliverables: Summary report; Upload QA data into CEDEN

CA DFWS will notify awards in November 2016

Nutrients – FY14/15 and FY15/16



Rationale for High Frequency Monitoring

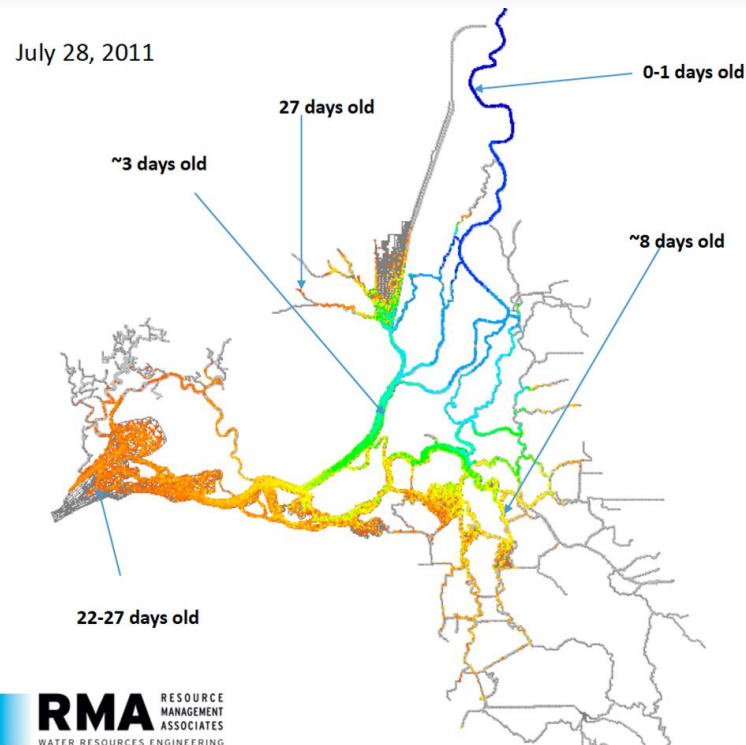
- Synthesis: High Frequency Nutrient and Biogeochemistry Monitoring Network
 - Pending approval by SC
- Synthesis: Recommendations for FY16/17 and beyond
 - On-going work

Nutrients: Synthesis/ Modeling/ Statistics

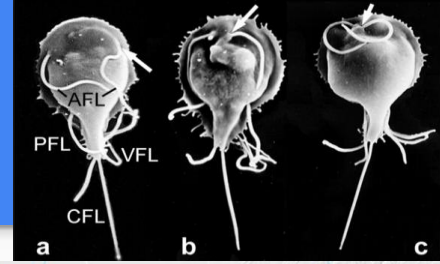
FY16/17 - Nutrient work consists of:

- Update IEP-EMP data synthesis report w/ new data (2012- 2016) + additional constituents (e.g., PO_4 , total P, Chl-a, DO)
- Conduct hydrodynamic modeling/particle tracking; assess output to identify cost-effective monitoring
- Conduct rigorous statistical analyses (e.g., trends, and, if so, why?)

Deliverables: Technical reports (June 30, 2017)



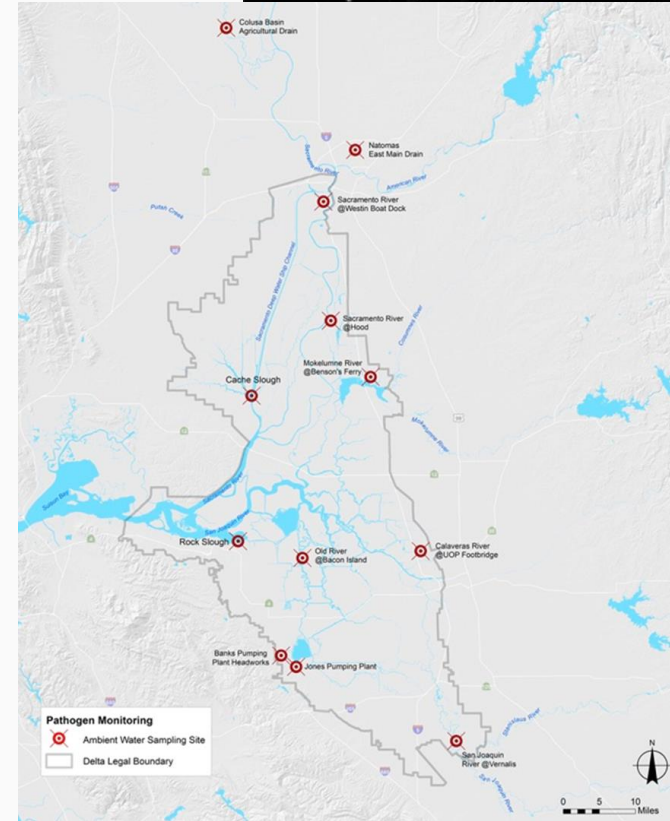
Pathogens



Two-year study (April 2015 – March 2017)

- Collaborative study developed by Central Valley Drinking Water Policy Workgroup
- Monitoring ambient samples at 12 water intakes
 - Cryptosporidium and Giardia -- no exceedances
- Set aside funding for Trigger Study (TBD)

Deliverables: Summary report; Upload QA data into CEDEN

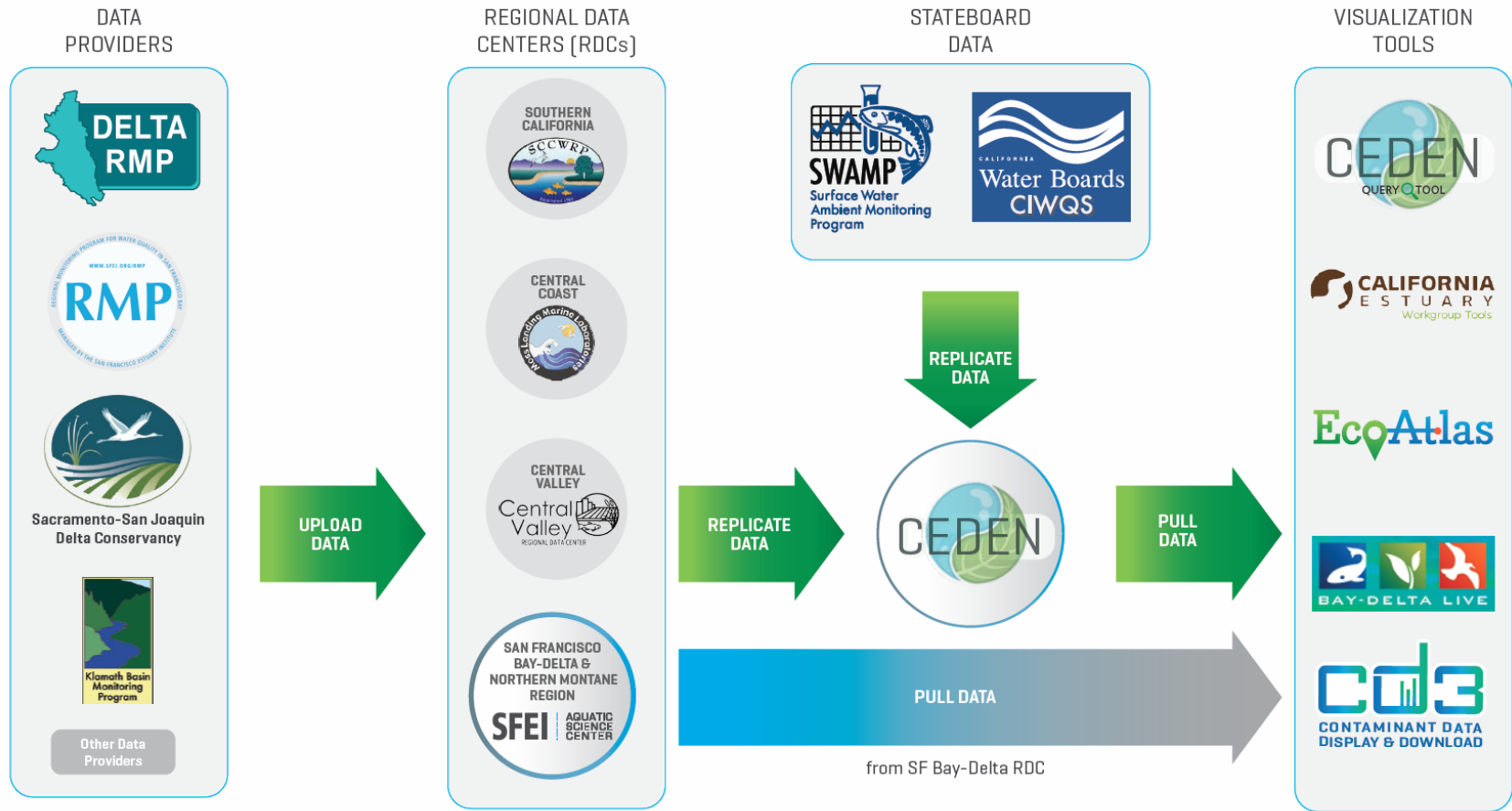


Communication

- RMP Goal: Generate products that inform and educate the public, agencies, and decision makers
 - Quarterly TAC/SC meetings
 - Documents, reports and the Pulse
 - Easily accessible data through CEDEN
- Plan to publish peer-reviewed articles and present at scientific conferences



SFEI-ASC's REGIONAL DATA CENTER DATA FLOW



Layers ▾ Legends ▾ Basemap ▾ Overlays ▾

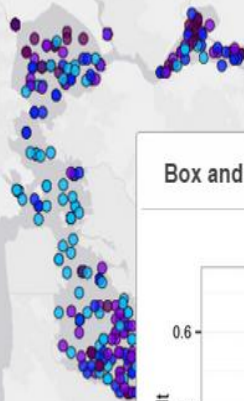


Mercury, Total in Water Chemistry (ug/l) (SF Bay RMP)

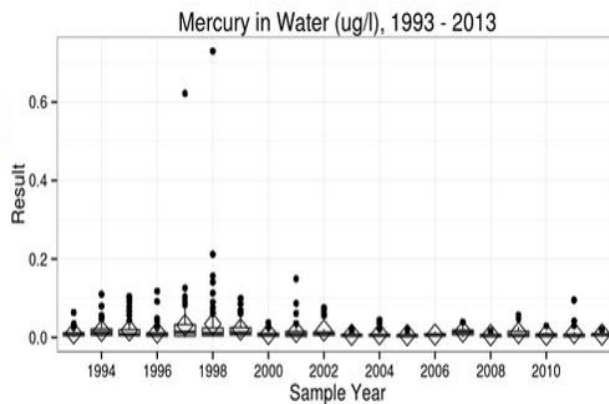
Map Legend Stats Charts Download

Display Stats Chart:

Select a chart type ▾



Box and Whiskers Chart



San Francisco Estuary Institute [04/15/2015]

Select Contaminant Data

Water Chemistry ▾

Select an Analyte Group x ▾

Mercury x ▾

Total x ▾

ug/l x ▾

SF Bay Regional Monitoring x ▾

Select a Project x ▾

Refine by Sample Year ▾

Filter by Area of Interest ▾

Set Map Layer Style:

Quartiles ▾

Download Data ▾

10 km
10 mi
Terms of Use

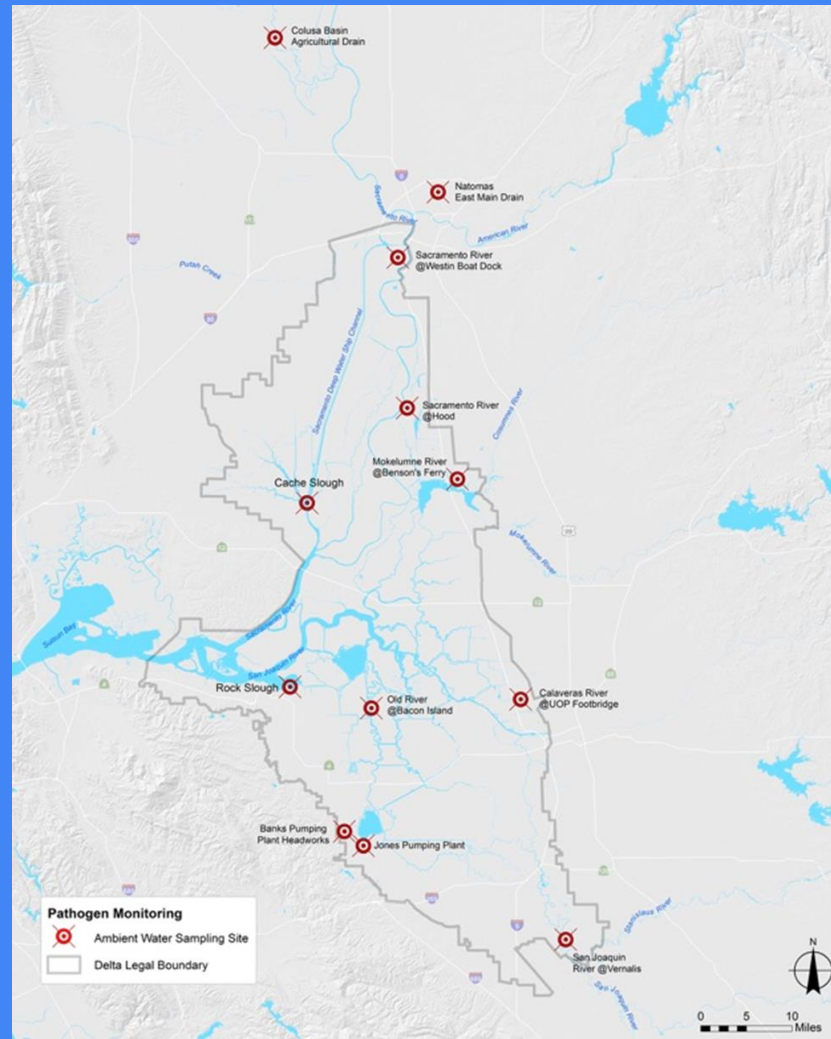
Questions?



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Pathogen Monitoring Locations



Mercury/ Methylmercury Monitoring Sites

Liberty Island

Little Potato Slough

Middle River
at Borden Highway (Hwy 4)

Mokelumne River
at New Hope

Sacramento River
at Freeport (FPT)

San Joaquin River
near Vernalis

